1. (Twice amended) A distance measuring system for measuring distance by receiving a reflection light beam from an object to be measured, comprising a control arithmetic unit, a storage unit, a light emitting unit for emitting a measuring light beam, and a photodetection unit for receiving said reflection light beam from said object to be measured and for issuing a signal based on a photodetection amount of said reflection light beam, a mode changing switch, and a display unit for displaying the result of a calculation of said arithmetic unit, wherein said mode changing switch selects whether said object to be measured is a prism or a natural object, said storage unit prestores a photodetection amount of a reflection light beam from the prism according to the distance and a photodetection amount of a reflection light beam from the natural object according to the distance, said control arithmetic unit compares between the photodetection amount of said reflection light beam that is received by said photodetection unit and said photodetection amount of said reflection light beam from said prism or said natural object that is prestored in said storage unit and judges whether said object to be measured is the selected object to be measured, and said display unit displays the result of said judgment by said control arithmetic unit.

2. (Twice amended) A distance measuring system according to claim 1, wherein said photodetection unit comprises a density filter for adjusting said photodetection amount of said reflection light beam from said object to be measured, said storage unit prestores an adjusting position of said density filter according to the distance to the prism and to the natural object, and said object to be measured is judged based on the adjusting position of said density filter.

6. (Twice amended) A distance measuring system according to claim 1, wherein there are provided at least a prism measurement mode and a non-prism measurement mode, and when said prism mode is selected, said distance is displayed on said display unit only when said object to be

measured is judged as a prism, and the fact that said object to be measured is not a prism is displayed on said display unit when said object to be measured is not judged as a prism.

7.   (Twice amended)   A distance measuring system according to claim 1, wherein photodetection sensitivity can be automatically changed over according to said photodetection amount of said reflection light beam from said object to be measured, it is judged whether said object to be measured is the selected object to be measured according to said photodetection amount, and the result of the judgment is displayed on said display unit.

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